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NOTICE OF ALLOWANCE AND FEE(S) DUE

24498

7590

08/02/2010

Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312 EXAMINER

VAUGHAN, MICHAEL R

ART UNIT

PAPER NUMBER

2431

DATE MAILED: 08/02/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,574	12/09/2004	Brian Albert Wittman	PU020277	1365

TITLE OF INVENTION: DATA TRAFFIC FILTERING INDICATOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1510	\$1510	11/02/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Princeton, NJ 08	3545-5512						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		АТТО	RNEY DOCKET NO.	CONFIRMATION NO.
10/517,574	12/09/2004	-	Brian Albert Wittman			PU020277	1365
TITLE OF INVENTION	I: DATA TRAFFIC FILT	TERING INDICATOR					
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nonprovisional	NO	\$1510	\$0	\$1510		\$1510	11/02/2010
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VAUGHAN,	MICHAEL R	2431	726-013000				
☐ "Fee Address" ind	oondence address (or Cha B/122) attached. lication (or "Fee Address D2 or more recent) attach	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	COUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	up entity 🔲 Government
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5. Change in Entity Sta	`	· · · · · · · · · · · · · · · · · · ·					
• •	as SMALL ENTITY state		b. Applicant is no long				R 1.27(g)(2). e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	of from anyone other than to Office.	ne applicant, a regi	istereu .	attorney of agent, of th	assignee of other party in
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,574	12/09/2004	Brian Albert Wittman	PU020277 1365		
24498	24498 7590 08/02/2010		EXAMINER		
Robert D. Shed	d, Patent Operations	VAUGHAN, MICHAEL R			
THOMSON Lice		ART UNIT	PAPER NUMBER		
P.O. Box 5312 Princeton, NJ 08	543-5312		2431 DATE MAILED: 08/02/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 922 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 922 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/517,574	 WITTMAN, BRIAN ALBERT				
Notice of Allowability	Examiner	Art Unit				
	MICHAEL R. VAUGHAN	2431				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to RCE filed 6/16/10.	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS				
<u> </u>						
2. The allowed claim(s) is/are <u>1,6-9,16,18-22,24,26,28,30,32,</u>	<u>34 and 35</u> .					
 Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Moreover and the priority documents have Copies of the certified copies of the priority documents have Certified copies of the certified copies of the priority documents have Moreover and the priority documents have Certified copies of the certified copies of the priority documents have Moreover and the priority documents have Moreover and	been received. been received in Application No. cuments have been received in thi	s national stage application from the				
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT OF this application.					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PT0	O-948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the						
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal 6. ☑ Interview Summar Paper No./Mail D 7. ☑ Examiner's Amen 8. ☑ Examiner's Stater 9. ☐ Other	ry (PTO-413), late <u>12/3/09</u> .				
/M. R. V./ Examiner, Art Unit 2431						
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DETAILED ACTION

The instant application 10/517,574 is presented for examination by the examiner.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 3/18/10 has been entered.

Claims 1, 6-9, 16, 18-22, 24, 26, 28, 30, 32, 34, and 35 are pending.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 6/16/10 has been considered by the examiner.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Guy Eriksen on 12/3/09.

The application has been amended as follows:

- 1. (currently amended) <u>An apparatus Apparatus</u> adapted to communicate via a network, comprising:
- a firewall including a set of rules for identifying packets associated with inappropriate activity, the rules in the set being separated into a plurality of classes; and

an indicator device for providing a plurality of user discernable indicators, wherein each of the plurality of user discernable indicators is associated with a different one of the plurality of classes and is visually discernable, and wherein a respective one of said plurality of user discernable indicators is triggered if one or more of the rules corresponding to one of said plurality of classes associated with the respective one of said plurality of user discernable indicators is violated.

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wherein the rules in the set are prioritized such that each of the plurality of classes represents a respective different one of a plurality of priority levels,

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wherein each of the plurality of user discernable indicators except a particular one is associated with the respective different one of the plurality of classes, the particular one of the plurality of user discernable indicators being associated with an affirmative status that filtering is being contemporaneously performed for any of the packets that violate the one or more rules, and wherein the method further comprises filtering any of the packets that violate the one or more rules, and wherein the particular one of the plurality of user discernable indicators is concurrently triggered, along with the respective one of the plurality of user discernable indicators, to indicate that the filtering is being contemporaneously performed, only when a number of the packets that violate the one or more rules exceeds a pre-specified threshold wherein the particular one of the plurality of user discernable indicators along with the respective one of the plurality of user discernable indicators are concurrently triggered, only when a number of the packets that violate the one or more rules exceeds a pre-specified threshold to indicate that the filtering any of the packets that violate the one or more rules is being contemporaneously performed.

16. (as currently amended) A cable modem, comprising:

downstream processing circuitry;

upstream processing circuitry;

- a controller in communication with said downstream circuits, upstream circuitry, and a memory;
- a firewall program including a set of rules for identifying packets associated with inappropriate activity, the rules being separated into a plurality of classes, said firewall program being resident in said memory and executable by said controller to cause examining data of packets from said downstream and upstream circuitry; and
- a plurality of user discernable indicators that are each visually discernable, wherein each of the plurality of user discernable indicators is associated with a different one of the plurality of classes and wherein a respective one of said plurality of user discernable indicators is triggered if one or more of the rules corresponding to one of said plurality of classes associated with the

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respective one of said plurality of user discernable indicators is violated, and wherein the rules in the set are prioritized such that each of the plurality of classes represents a respective different one of a plurality of priority levels,

wherein the firewall program is executable by said controller to cause filtering any of the packets that <u>violate</u> at least one of the rules, and wherein each of the plurality of user discernable indicators other than a particular one is respectively associated with the different ones of the plurality of classes, the particular one of the plurality of user discernable indicators being associated with an affirmative status that filtering is being contemporaneously performed, and wherein the particular one of the plurality of user discernable indicators is triggered, concurrently with the triggering of the respective one of the plurality of user discernable indicators, if the one or more of the rules is violated, the filtering is performed by the firewall program, and a number of the packets that violate the one or more rules exceeds a pre-specified threshold.

- 19. (as currently amended) The <u>cable modem apparatus</u> of claim 16, wherein said plurality of user discernable indicators comprises a highlighted icon displayed on a computer device.
- 22. (as currently amended) The <u>cable modem-apparatus</u> of claim 16,wherein the firewall program is executable by said controller to cause filtering of any of the packets that violate the one or more rules irrespective of a number of the packets that violate the one or more rules, but wherein the respective one of the plurality of user discernable indicators is triggered only when the number of packets that violate the one or more rules exceeds a pre-specified threshold.

 32. (as currently amended) The <u>cable modem-apparatus</u> of claim 16, wherein only the particular one of the plurality of user discernable indicators is triggered if the one or more of the rules is violated, the filtering is performed by the firewall program, and the number of the packets that violate the one or more rules does not exceed a pre-specified threshold.
- 34. (as currently amended) The <u>cable modem-apparatus</u> of claim 16, wherein whether the respective one of the plurality of user discernable indicators is triggered or not is based on which of the plurality of priority levels is involved with respect to a corresponding rule violation.

In the specification:

The paragraph beginning on page 12, line 28 is marked up below:

Optional steps 308, 312, and 316314 provide a threshold level that must be

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Applicant's arguments, filed 10/27/09, with respect to claims 1, 7, and 16 have been fully considered and are persuasive.

The closest prior art of record fails to teach "wherein the particular one of the plurality of user discernable indicators along with the respective one of the plurality of user discernable indicators are concurrently triggered, only when a number of the packets that violate the one or more rules exceeds a pre-specified threshold to indicate that the filtering any of the packets that violate the one or more rules is being contemporaneously performed" in combination with rest of the claims' limitations. Each of the independent claims contains an equivalent limitation in scope. This specific scenario with respect to the indicators, filtering, and threshold in conjunction with the claim firewall would not have been obvious to one of ordinary skill in the art.

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Allowable Subject Matter

Claims 1, 6-9, 16, 18-22, 24, 26, 28, 30, 32, 34, and 35 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL R. VAUGHAN whose telephone number is (571)270-7316. The examiner can normally be reached on Monday - Thursday, 7:30am - 5:00pm, EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. R. V./ Examiner, Art Unit 2431

/William R. Korzuch/ Supervisory Patent Examiner, Art Unit 2431 Application/Control Number: 10/517,574

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